

Name: _____

Remediation – Point Slope Form

After you have watched the video from the wiki, you should try the following problems and then use the key to check your work. There is no good way to "check" these problems on your calculator.

Directions: Please rewrite the following equations in slope-intercept form.

$$y = mx + b$$

$$1. \quad -\frac{1}{5}(-7y) = 15 - 7x \quad \left(-\frac{1}{5}\right)$$

$$y = -3 + \frac{7}{5}x$$

$$y = \frac{7}{5}x - 3$$

$$3. \quad 2x - 3y = 12$$

$$-\frac{1}{3}(-3y) = (-2x + 12) \left(-\frac{1}{3}\right)$$

$$y = \frac{2}{3}x - 4$$

$$5. \quad 15 = -y - 5x$$

$$-1(-y) = (5x + 15) \quad (-1)$$

$$y = -5x - 15$$

$$7. \quad \frac{3}{7}y - x = -5$$

$$\frac{7}{3} \left(\frac{3}{7}y \right) = (x - 5) \left(\frac{7}{3} \right)$$

$$y = \frac{7}{3}x - \frac{35}{3}$$

$$2. \quad y + 5x = 12$$

$$-5x - 5x$$

$$y = 12 - 5x$$

$$y = -5x + 12$$

$$4. \quad \frac{2}{3}x + 9y = 11$$

$$-\frac{2}{3}x - \frac{2}{3}x$$

$$\frac{1}{9}(\uparrow y) = \left(-\frac{2}{3}x + 11\right) \left(\frac{1}{9}\right)$$

$$y = -\frac{2}{27}x + \frac{11}{9}$$

$$6. \quad \frac{2}{5}x + \frac{1}{7}y = -\frac{1}{3}$$

$$-\frac{2}{5}x - \frac{2}{5}x$$

$$7 \left(\frac{1}{7}y \right) = \left(-\frac{2}{5}x - \frac{1}{3}\right) 7$$

$$y = -\frac{14}{5}x - \frac{7}{3}$$

$$8. \quad 2y - 11x = 9$$

$$2y - 11x = 18$$

$$+11x +11x$$

$$2y = 11x + 18$$

$$y = \frac{11}{2}x + 9$$